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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
CONTINUOUSLY SINCE THAT DATE

A. S. ROSSITER, *EDITOR*

PUBLISHED MONTHLY BY SECRETARIAL SERVICE
16th FLOOR INQUIRER BUILDING
PHILADELPHIA, PENNSYLVANIA
C. J. STOVER, *Proprietor*

Entered As Second Class Matter November 23, 1923, at the Post Office at Philadelphia, Pennsylvania, Under Act of March 3, 1879

Volume 21 JANUARY 1940 Number 7

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U. S., CANADA AND MEXICO	$2.00 PER YEAR
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GREETINGS--

Executives in the Asbestos Industry face the New Year with Courage

World conditions in general, more than any other specific factor make it impossible for business men to imagine, much less predict, what is before them in 1940. Nevertheless executives in industry, including the Asbestos Industry, are facing the new year without fear.

A number of leaders in the Asbestos Industry welcome the opportunity to extend greetings to their colleagues thru our pages, and to comment on various topics of interest.

—:—

S. Simpson, President, Raybestos-Manhattan, Inc., sends greetings and suggests an ideal platform for 1940. It probably cannot be attained but is worth working toward as a goal.

In sending my greetings to all those interested in the Asbestos Industry, I am reminded of the progress that has been made to date, the year 1939 being a good one for all of us, but it is difficult to prophesy at this time.

I can, however, express the wish that the Asbestos Industry will progress and prosper thru the development of our technical and research departments. New and improved products which would result in new uses for asbestos are always needed.

For 1940, I would welcome a satisfactory solution of the international situation, a truer spirit of cooperation between employer and employee, and a spirit of understanding on the part of those picked to rule our destiny.

—:—

Herbert Abraham, President, The Ruberoid Co., points out hopeful signs of improvement of business in the asbestos-cement line:

In appraising the New Year from the viewpoint of the asbestos industry, I observe, in a survey of opinions of rep-

resentative distributors of builders' supplies in forty-one states, recently completed by The Ruberoid Co., what appears to be a highly encouraging sign.

In addition to predicting a substantial increase in private residential construction in 1940 over 1939, a large majority of those reporting stated that of all the current forms of sidings, those made of asbestos-cement were growing most rapidly in popularity, and that asbestos-cement shingles constituted one of the three types of roofing now enjoying the highest favor of the home-building public.

These, I think, may be reasonably regarded as hopeful straws in the wind. Infinitely more important, however, is the apparently unanimous opinion of practical business men that American prosperity is not dependent upon that economic delusion known as "war profits", but upon the energy and initiative devoted by each of us, in promoting his own business and in furthering the interests of his community.

In conclusion, I welcome, on behalf of the Ruberoid organization, this opportunity to extend to all members of the Asbestos Industry the heartiest of New Year greetings.

—:—

G. D. Crabbs, President, The Philip Carey Company, looks for gradual but sound improvement in 1940:

I am very happy to take this occasion to extend my best wishes to the readers of "ASBESTOS" and to express the hope that they may all have enjoyed a very happy Christmas and are looking forward to a busy and productive New Year.

While no one feels safe in prophesying what will happen during some period in the future, all of us here at Lockland are of the opinion that 1940 should be at least a fair year. There are some influences that are not for the best, but the grand average of all those of which we are conscious would seem to indicate the possibility, if not the probability, of the continuation of a gradual but sound improvement.

The entire Carey organization joins me in wishing you and your readers a happy and prosperous New Year.

Ernest Muehleck, President of Keasbey & Mattison Company, suggests a program for 1940 looking toward recovery:

For some months past this country has been fortunate in having a marked upturn in business which commenced even prior to the outbreak of the present European War. However, with all of the aspirations and warped thinking of too many Napoleons, resulting in terrible suffering, chaos, waste and uncertainty in this world of today and moulding the destinies of millions of people for better or for worse, it becomes impossible to foresee what the coming year may have in store for us.

Besides keeping our feet firmly on the ground and our thoughts and judgment from becoming warped, let us all do everything possible to bring about a return of "Peace on Earth, Good Will Toward Men", and also direct our efforts to the advancement of recovery on a long range permanent basis, at the same time strengthening public opinion for the removal of unnecessary restrictions and obstructions which impede our permanent business recovery.

In this spirit the Directors of the Keasbey & Mattison Company join me in extending best wishes for a happy and prosperous 1940 to all those who are directly or indirectly engaged in the asbestos industry.

—:—

Lewis H. Brown, President, Johns-Manville, believes that the normal and healthy business recovery begun in 1939 will continue in 1940:

Altho the Diamond Jubilee year of our industry has not been all that we could have hoped for from the viewpoint of sales and profits, we were able to make major strides in recovering from the disastrous slump which was upon us at the start of 1938, and I feel that this has been a year of substantial progress for the entire Asbestos Industry.

Just what effects the events in Europe had on our business in 1939 is difficult to determine. There was a measure of real recovery evident in the first part of the year which could in no way be called attributable to any anticipation

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of war, for at that time few believed that the lid would blow off in Europe. Following the outbreak of war there was acceleration of domestic buying in anticipation of war developments, but this continued even after it became apparent that no substantial increase in buying by the belligerents could be expected in the immediate future. In the light of these facts, I prefer to consider that this future upswing in business during the latter part of the year was largely caused by a continuation of our early-year trend toward real recovery, rather than by war developments.

In looking toward 1940, I am hopeful that these forces of real recovery will continue. No one knows what is going to happen in Europe, but I do not believe that a change in the war situation would have any major effect on business here in the immediate future. For this reason I am of the opinion that all efforts should be turned toward bringing about a continuation of the normal and healthy business recovery which was experienced in the year just passed. Perhaps the most encouraging sign during 1939 was the evidence of an increasing cooperation between government and business, and, if this trend can continue, I am hopeful that we will see more prosperous times for all industry during 1940.

It is a great pleasure for me to take this opportunity, so kindly provided once again by "ASBESTOS", to extend Johns-Manville's and my own best wishes to the entire Industry for a most successful year.

—:—

A. K. Burgstresser, points to the Diamond Jubilee as one of the important events of the past year:

One of the important events during the year 1939 in the Asbestos Industry, in the writer's opinion, was the privilege given to the Industry to celebrate the 75th Anniversary of its beginning and outstanding in this celebration was the effort put forth by the magazine "ASBESTOS". I want to take this opportunity to thank you, as Editor, for the good work you did in promoting this event.[1]

[1]While the Editor is grateful for Mr. Burgstresser's praise, the celebration owes most of its success to the fine co-operation of Mr. Burgstresser and many of his colleagues in the Industry.

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"ASBESTOS"

F. Schluter, President of Thermoid Company, sounds a note of caution to every business leader:

Our business is fine and we expect even better for 1940 taken as a whole, but in sending greetings to the readers of "ASBESTOS" at the turn of the year, I sound a serious note.. It seems to be the duty of everybody at this juncture in American history to reflect. With a war raging in Europe, *we* are at peace. The American business system, its efficiency and productive capacity, are the envy of the whole world. Nevertheless, business men have been put on the defensive in this country by political demagogues. It is time for all businessmen to explain in plain language the reasons for the progress of America and the existence in this country of the highest standard of living in the world.

The reasons are rooted deeply in our constitutional background, which has encouraged the free enterprise system—the basic principles which protect the individual in his right to life, liberty and the pursuit of happiness.

For the first time in our 150 year history we are coming to the end of a ten year period without going on to new heights of production and improved standards of living. Possibly the public will become aroused without much effort to the fact that the trend of changes in the form of our government may have something to do with retarded production and employment. Every move toward centralized control and regulation with their stifling taxes, brings closer central economic planning which we find in dictatorship countries.

Business always has been against war but it should double its efforts to keep us out of war. The war may easily be the excuse for complete regimentation and crushing taxes. Every citizen pays these taxes whether he knows it or not.

So it would seem the duty of every businessman today to do his share in educating that sector of the public which believes the political "catch phrases" too easily. The advantages of the free enterprise system and the

K&M best in asbestos

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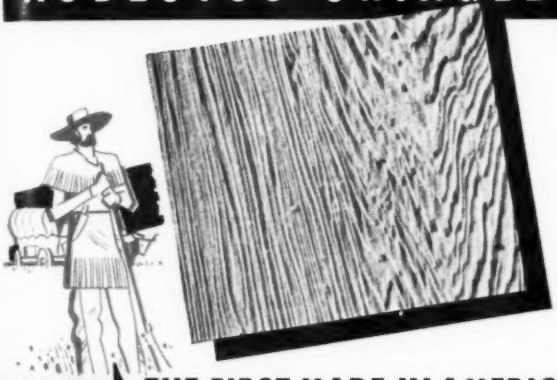

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necessity for its preservation are important to the welfare of every citizen. It is fundamentally tied in with religious and personal freedom.

—:—

R. W. Steele, President of Asbestos Corporation Limited, expresses his hope for a just and lasting peace:

It gives me great pleasure once more to express thru the medium of "ASBESTOS" the greetings and good wishes of Asbestos Corporation Limited to the industry which we serve.

Amid the turmoil which prevails in the world today, it is impossible to predict the immediate future with any certainty; nevertheless, we all look forward with hope to the conclusion of a just and lasting peace which may prove to be the foundation for a long period of prosperity.

—:—

C. J. Stover (owner of "ASBESTOS") expresses appreciation for the many kindnesses extended by members of the Asbestos Industry to him during his recent illness:

Hello, Everybody!

If I could pray, it would be a prayer for peace, plenty and happiness for all mankind. Especially would I pray that some of the sympathy and kindness, so bountifully extended in times of illness or trouble, be made a day-to-day part of all our lives.

Freely I admit my own deficiencies witnessed by impatience, overargument, often cruelty to other people's feelings. Coals of fire have been heaped on my head during recent weeks by scores of people, to whom I *could* have been more kind, overwhelming me with kindness and sympathy in a time of illness.

I hope to forever remember and pass along, in day-to-day contacts, some little of this consideration for others.

May *your* New Year be full to overflowing with all the good things of life.

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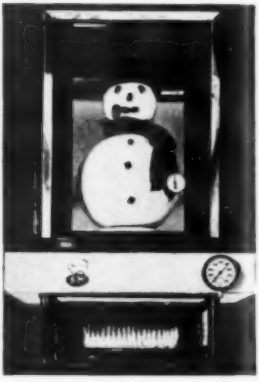
K & M'S FAMOUS FIERY SNOW MAN

Franklin Institute to have Snow Man on Exhibit after January 27th

At 1.00 P.M., January 27th, Ernest Muehleck, President of Keasbey & Mattison Company, will unveil the famous Fiery Snow Man in the Hall of Physics in the Franklin Institute, Philadelphia, where it will be on exhibit for an indefinite length of time.

The Snow Man, which attracted the attention of thousands of interested visitors at the New York Fair last summer, keeps his frosty overcoat by means of an electric refrigerator unit. Beneath him is a gas flame with a temperature of 800 degrees, but a thick wall of asbestos-magnesia insulation separates the gas flame from the Snow Man.



The ceremony on January 27th will be broadcast over WCAU (Philadelphia); following the ceremony Mr. Muehleck will be interviewed by Major Thomas Coulson of the Franklin Institute, who will ask laymen's questions about asbestos, which Mr. Muehleck will answer.

The Franklin Institute is open on Sunday, Tuesday, Wednesday and Friday from two to six P.M.; on Thursday from two to ten P.M. and on Saturday from ten A.M. until six. It is closed all day Monday. Those who did not see the Snowman at the New York Fair may now visit him at the Franklin Institute in Philadelphia.

MODEL LOCOMOTIVE

Uses Asbestos Insulation

Intriguing indeed is the working model passenger locomotive on display at present in the Reading Terminal (12th & Market Sts., Philadelphia) of the Reading Railway System.

This model was built by apprentices in the Reading Company Shops at Reading, Pa., on their own time. It is an exact one-eighth scale model of Passenger Locomotive-Pacific Type Gl-sa. Fifty-two apprentices actually worked on the model, including the making of the drawings, patterns, machining parts, building the boiler complete and assembling the parts.

The model actually runs and even blows a whistle at intervals, and is attracting a great deal of attention on display. Its total length overall is 10′ 1½″, has a boiler pressure of 40 pounds, a tractive power of 116 pounds, a total weight of 1,991 pounds, total heating surface of 47.3 sq. ft. and a grate surface of 1.48 sq. ft.

Upon seeing it we could not help but wonder what kind of insulation, if any, was used. We wrote the Reading Company, who very kindly supplied the information. Asbestos insulating tape 1/16″ thick was applied in three layers around the barrel of boiler; half of the firebox was covered with three layers of 1/16″ thick insulating tape, and the other half and back head were insulated with ¼″ thick sheet asbestos. Approximately two square feet of sheet asbestos was used and 200 feet of insulating tape in all. The pipes on the model were not covered.

MISNOMER CORRECTED

A few weeks ago one of our good friends, and a constant reader of "ASBESTOS", casually mentioned to us that in an exhibit of asbestos in the Smithsonian Institution, Washington, D. C., a basket of carded asbestos fibre was labeled "Mineral Wool".

This label was probably attached long before the

term "Mineral Wool" was adopted as a trade name—when, in fact, asbestos fibre was the *only* mineral wool in existence.

As the name "Mineral Wool" is now a misnomer when applied to asbestos fibre, we explained this to the Smithsonian Institution and asked them to change the label to "Carded Asbestos Fibre". This they have promised to do, writing us to that effect on December 7th.

Readers are asked to tell us of errors of this or other kinds found in connection with asbestos or asbestos products when they run across them. Often, as in this case, we can have them corrected.

SAFETY EQUIPMENT EXHIBIT

"Modern Man at Work" is an exhibition of protective equipment worn by workers in various occupations and professions, on view in the science department of the Newark Museum, Newark, N. J. The display will be shown thru March 11, 1940.

Features of the exhibit are fully equipped figures of a diver, miner, welder, sandblaster and surgeon, dressed in costumes lent by manufacturers of safety equipment and by departments of the federal government. Asbestos suits have a prominent place in the display.

Included as a special feature of the exhibit are two large dioramas lent by the U. S. Department of Labor, depicting a modern foundry employing approved safety methods and protective equipment for its workers, and the same kind of foundry before modern safety ideas were adopted.

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By F. R. Cozzens

Practically everyone at sometime in life has taken medicine and it is said that feats and defeats of the medical profession have provided the world's most versatile topic of conversation. Be that as it may, the fusing and blending of drugs which comprise our most common medicines is an interesting story, and few laymen realize the complicated process by which roots, barks, and herbs are manufactured into the finished product. Scores of men and women earn a livelihood by collecting the crude herbs while many others in packing houses, drying sheds, factories and laboratories aid in making the business a billion dollar industry. It is an industry where accuracy and precision are foundation features because life and death may depend upon the use of its product. Such requirements demand the most modern equipment, and interesting indeed are the various ways in which asbestos products are utilized in making possible the present high standards of American medicines.

Medicinal herbs, of which there are some 300 varieties ranging in value from a few cents to $20.00 per pound, are gathered in the summer season and sent by collectors direct to drying rooms in central cities. The drying rooms are 12 x 100 feet, arranged for free air circulation, the ceilings of which are made of long fibre asbestos felt. This material is sprayed twice daily with a sodium solution for the control of dust and fumes. Screens upon which the herbs are dried are arranged one above the other in tiers from floor to ceiling, and since rust and corrosion must be reckoned with, we find them made of zinc-coated wire, interlaced with asbestos yarn.

After drying is completed, a process requiring about ten days, the herbs are sent to the grinding rooms where mills pulverize them to the consistency of the finest flour.

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Here, also, we find apothecary scales sufficiently sensitive to weigh the mark of a pencil. Foundations for this equipment must be sturdy yet resilient enough to absorb vibrations which would throw the mechanism out of balance. This effect is made possible by placing layers of asbestos felt between blocks of cement, one inch in thickness, the foundations being held together by stud-bolts, ends of which are counter sunk and coated with plastic cement. Walls and ceilings of most pulverizing rooms are insulated with asbestos felt which can be sprayed for protection against dust and fumes.

Upon being milled, medicinal herbs must next undergo one of two processes—distillation or compression. Of these, distillation is the most common. Stills for the purpose may range from a few fluid ounces to several barrels capacity, but regardless of size, temperature control is an important factor. This is invariably done by various types of asbestos pipe coverings and plastic cement. A very recent and important contribution to drug distillation was made possible by the discovery that asbestos fibre suspended in liquid presents a surface that collects flotsum and sludge without itself undergoing a chemical change. For this reason, asbestos flakes, swabs made of asbestos fibre and yarn, and sieves of long fibre asbestos, are used in tanks to clarify both acid and alkali solutions. Another recent introduction is the use of asbestos fibre and charcoal in filtering vats. The filler is prepared of three parts charcoal (measured) to one part asbestos fibre. Still another procedure is the use of strainers made of asbestos yarns in solutions containing salt and sulphur. Chemical residue from such solutions is collected by the strainers, and can be removed without damage.

The process of either distillation or compression requires working equipment which resists acids, alkali, and various chemical oxides. We find table and bench tops containing certain types of asbestos materials, one type being commercially made for the purpose by gluing together several layers of asbestos-cement boards, upon the surface of which is applied a heavy coating of Bakelite

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varnish. A more common type of bench has a stone base, coated heavily with plastic cement and varnished. An outstanding feature in the compression of drugs into powder or tablet form is thermal insulation and anti-sweat pipe coverings. In most drug factories, asbestos swabs saturated with cleansing agents are used to remove stains from floors and equipment.

From field and forest to apothecary's shelf is an industrial journey requiring many weeks, during which medicinal herbs are brought into contact with the most precise and efficient equipment known to science. It is a noticeable fact that where the need for accuracy is greatest, asbestos materials are most prominent and in practically every installation there is an additional saving in labor and time.

"C" BOARD

A new kind of building board has been perfected by the Keasbey & Mattison Company for use in marine construction.

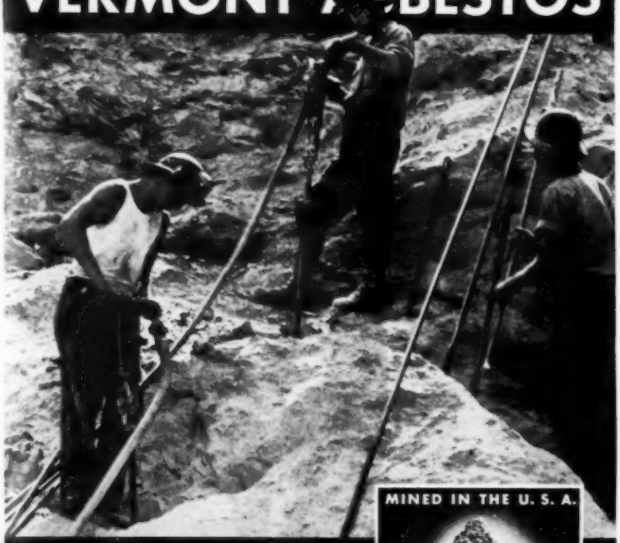
Marketed under the name of "C" Board, it is designed for use in the place of wood in the construction of partitions and panels which separate companionways and staterooms on shipboard, for state room or corridor walls, and also for panels in bulkheads, as an insulating base for flooring, etc. It has been approved by the Maritime Commission and meets the requirements of the Bureau of Marine Inspection and Navigation.

"C" Board is a homogeneous panel board containing asbestos, has highly uniform strength, is light in weight, with high compressive strength. It acts as a fire, sound and heat barrier—triple service. It is furnished in various utilitarian or decorative finishes.

Altho primarily designed for use at sea, it has industrial uses as well, an important one being as fireproof covering for structural steel parts of building and equipment where damage by fire to the structural steel would cause additional hazards.

The manufacturers will be glad to send further details to anyone interested.

VERMONT ASBESTOS



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INQUIRY SERVICE

Last January we announced that we proposed to make the year 1939 one of service and asked, in fact urged, our readers, to send us inquiries concerning asbestos and asbestos products and the asbestos industry at large.

Many readers took us at our word, with the result that 90 specific and separate inquiries were received and answered by us during the year.

A few of these surpassed our knowledge and ingenuity to find the answers, but we did answer the greater majority—how satisfactorily we will let our inquirers decide.

The 90 did not include simple requests for addresses or other data offered in the pages of "ASBESTOS".

Requests for prices prevailing during the World War period—1914 to 1918—gave rise to what we term our "War Number" (October) and the article "Prices, Production and Uses of Asbestos During the World War," which was published in that number.

Other inquiries will serve as the basis for coming articles.

Perhaps the one which caused us the worst headache was received on a Saturday morning, from a man who was preparing to speak on an asbestos subject at a forthcoming convention and wanted the information in a hurry. The inquiry read: "Would it be possible for you to send me some data on the size of the Asbestos Industry in the United States, as compared with Canada, Continental Europe and South Africa, from the standpoint of both raw products and manufacturing, with perhaps a list of plants, major mines, etc. Also information regarding the construction value of the Asbestos Industry and its relative importance to other construction industries." We are afraid our reply did not, for obvious reasons, give him all the information he asked for, altho we did our best.

Another one which we might describe as "all inclusive" read: "Please favor us with all the available data on asbestos". Since we have spent twenty years collecting and compiling data on asbestos the request was somewhat of a poser. However we sent the inquirer a copy of the U. S.

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Bureau of Mines Bulletin No. 403, and a list of the Uses of Asbestos, and offered to answer any specific questions.

Thru this service we have helped two writers of children's text books to edit a chapter devoted to asbestos and have supplied students and others with information for papers covering asbestos subjects; moreover we have given away to students and others innumerable specimens of the various types of crude asbestos.

All this work has been intensely interesting and, we believe, worthwhile, even tho it has taken a very great deal of our time and effort.

We have no intention of abandoning it, so continue to ask us for information. We will do our best to supply it.

—:—

The Diamond Jubilee Article "Asbestos—The Magic Mineral" was published in the Carey Clearing House for December; in the November issue of Thermoid News; in the December 16th issue of the India-Rubber Journal (London) and was included in a paper given by E. H. Clausen of Johns-Manville, San Francisco, before the annual meeting of the Pacific Coast Asbestos Association held in San Francisco on November 2nd and 3rd.

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Who is the oldest man, in years of employment or service, in the Asbestos Mining Industry? If you know of anyone in the Industry who has been employed continuously in any capacity, for over 50 years, ask them to send us their name, with details as to where and how long employed, and also their photograph.

RAW ASBESTOS

N. V. NEDERLANDSCHE ASBEST MY

P. O. BOX 803

ROTTERDAM (Holland)

Stock at Hamburg, Rotterdam

MOVABLE PARTITION WALLS

A new low-cost movable partition for subdividing offices and partitioning off departments in plants and factories has recently been announced by Johns-Manville. This new type of partition wall is easy and economical to erect and equally as simple to dismantle and relocate. It is being marketed under the trade name "Transite Walls-Universal Type."

The panels which form the finished wall are 1¾" thick, consisting of a sealed lightweight core faced on both sides with ⅛" asbestos-cement board. They have a soft gray finish which may be waxed, or painted to blend with any color scheme.

A high degree of sound resistance is a feature of these movable walls. While the finished wall panel is only 1¾" thick, comparative tests reveal sound isolation values equal to a 3" wall of conventional partition construction.

Doors of the same construction are available in two finishes, wood veneer over asbestos-cement board or the same finish as the walls.

Copies of folder, Form TR-25A, describing this movable partition and including erection specifications and drawings of typical details, are available upon request to Johns-Manville, 22 E. 40th St., New York City.

MARKET CONDITIONS

GENERAL BUSINESS

Various sources of information, prophecy and guess as to business in 1940 appear to agree that the first quarter will show some decline, then gradual recovery in the 2nd, continuing in the third. The fourth quarter of 1940 is rather in question at present, some believing the upswing in the 3rd will continue, others that business will show some let-down toward the end of the year. On the whole, however, 1940 is expected to be a better year than 1939, this especially in view of the strong building activity and advances forecast in 1940 for electric power production, department store sales, mail order sales, motor car registration and railroad carloadings.

ASBESTOS - RAW MATERIAL

Every Asbestos Producer, whether in Canada, Russia, South Africa or Cyprus—wherever conditions permit, is running to maximum capacity and is heavily booked with orders for 1940.

War conditions, no doubt, are partially responsible for increased demand—Asbestos is a very essential commodity in wartime.

Prices, of course, will advance—not that the Asbestos Mine Producers are profiteering, but the cost of materials used in producing Asbestos, has advanced. Labor has advanced, the cost of explosives is up, and, most important of all, freight rates, marine and war risk insurance rates, to all ports, have been greatly increased.

What will Germany do for Asbestos? Germany will probably obtain some Asbestos from Russia, but not much as Russia has only a limited supply to sell in excess of her own requirements for 1940 and Russia has already contracted with other countries for most of her surplus. But Germany will manage during this war the same way she did during the World War. She will use glass. Germany used glass extensively during the last World War—for in-

sulation material, for spinning purposes; even asbestos cement products were made with glass fibre. As soon as the war was over, however, Germany returned to the use of Asbestos. History will probably repeat itself.

ASBESTOS—MANUFACTURED GOODS

Textiles. The volume of business in the asbestos textile market continues good; in fact textile manufacturers report that they are enjoying the best textile business they have had for more than a decade, with no indication of decline.

The trend of textile prices is upward, but advances are only slight and necessary because of increased costs of raw materials and manufacturing.

Paper and Millboard. The market in asbestos paper shows a decline, which is natural at this time of the year. Prices are holding.

Not much demand for millboard at present—prices firm.

Insulation. High Pressure. Volume is holding steady at the improved level reached during the past few months. While no startling gains have been recorded, the steady increases during the last half of 1939 have been sufficient to make operations at the present time appear quite satisfactory from the volume standpoint. Prices are firm.

Insulation. Low Pressure. Demand in the aircell market is very light, mostly because of the season. Prices are at the same levels as they have been for several months past.

Asbestos-Cement Products. The New Year finds a more optimistic tone in the field of asbestos-cement products. Major improvements in the important item of asbestos-cement sidings seem imminent and the last few months have seen a general trend more favorable to this class of product which still leads the field of siding materials adaptable for rejuvenating old houses and is fast being recognized as a most suitable and satisfactory product for new construction work. The government's small homes project, which it is expected will be the potent factor

in 1940 building business, is sure to favor the use of asbestos-cement roof shingles and sidings.

Prospects also seem favorable for increased industrial construction work which undoubtedly will mean an increased sales volume for industrial products such as asbestos-cement corrugated and flat sheets.

These comments are made by men closely in touch with the various markets and so in position to know; ideas, opinions and comments are always welcome from members of the Asbestos Industry.

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Asbestos, according to recent release by the Dominion Bureau of Statistics, is the most important non-metallic mineral from point of view of value, produced in Canada. The total value of asbestos produced in Canada in 1939 was more than half the total of all non-metallics, with the exception of fuels, combined. One company in Ontario reported production during 1939; all other production was reported from Quebec. Total output in 1939 reached 353,151 tons, valued at $15,454,151.

CURRENT RANGE OF PRICE

Canadian

	Per Ton (2000 lbs.) f.o.b. Mine
Group No. 1 (Crude No. 1)	$700.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	150.00 to 350.00
Group No. 3 (Spinning or Textile Fibre)	110.00 to 200.00
Group No. 4 (Shingle Fibre)	57.00 to 85.50
Group No. 5 (Paper Fibre)	40.00 to 49.50
Group No. 6 (Waste, Stucco or Plaster)	30.00 to 32.00
Group No. 7 (Refuse or Shorts)	12.00 to 27.00

Vermont—

	Per Ton (2000 lbs.) f. o. b. Hyde Park, Vt.
Shingle (Minimum test 0-2-10- 4)	$57.00
XX (Minimum test 0-0-10- 6)	40.00
E (Minimum test 0-0- 7- 9)	30.00
C (Minimum test 0-0- 5-11)	25.00
Shorts	$12.50 to 16.50
Floats	18.00

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

CONTRACTORS AND DISTRIBUTORS PAGE

Tables for Estimating on Various Areas

Some of our readers may remember the tables published in "ASBESTOS" some years ago, convenient in estimating on ducts, fittings, flanges, etc.

There were 12 of them and they covered

Sq. Ft. Areas Pipe Covering
Mean Sq. Ft. Areas Standard Screwed Fittings
Mean Area Standard Weight Flanged Fittings
Standard Weight Flange Areas, Permanent Type
Standard Weight Flange Areas, Removable Type
Figuring Hair Felt, 1", 1½", 2"
Anti-Frost Insulation
Cork Pipe Covering, Outside Area in Sq. Ft.
Ice Water Thick Cork Moulded Fittings Screwed, Outside Area in Sq. Ft.
Brine Thickness Cork Molded Fittings, Screwed, Outside Area in Sq. Ft.
Special Thickness Cork Moulded Fittings, Screwed, Outside Area in Sq. Ft.
Ducts and Flue Perimeters.

Thru the years we have had calls for sets of these tables until our supply of the back copies of "ASBESTOS" in which they were published has become very low.

Now we have had sets of these tables made up (each table on a separate sheet) and can supply such sets at a price of $1.00 each, which is, of course, far cheaper than buying the back copies of the magazine or having photostats made.

The tables will be printed on paper which will wear well under handling. Orders can be filled immediately upon receipt.

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At present we are in the midst of a building boom. And, judging from materials and workmanship being used, five or ten years hence another boom will come along when extensive repairs will be needed.

Building

The dollar volume of total construction contracts in November amounted to $299,847,000 for the 37 states east of the Rocky Mountains, according to statistics compiled by F. W. Dodge Corporation. This total was within one per cent of the volume of construction recorded for November, 1938, and represents a 15 per cent increase over October of this year.

The up-swing in general business activity was reflected in contracts awarded for both commercial buildings, which rose from $13,721,000 in November, 1938 to $20,400,000 in November 1939, and for manufacturing building, which rose from $10,534,000 to $18,481,000. The curtailment in Federal expenditures, however, caused a decline in non-residential building as a whole in November as compared with the corresponding month of 1938.

November contracts awarded for residential building, 80 per cent of which reflected private-ownership construction, continued at a high rate and exceeded the volume reported for November, 1938 by 22 per cent. In this category, one-family dwellings enjoyed the greatest dollar gain by showing a 29 per cent increase over the corresponding month of 1938.

Contracts awarded for public works and utilities in November exceeded the volume reported for October by 49 per cent and that reported for November, 1938 by 17 per cent. Over 60 per cent of all contracts awarded for public utilities represented private construction, a possible indication that the privately-owned utilities are gradually beginning the expansion programs which have long been anticipated.

Asbestos-Cement Siding Over Brick

The American Roofer in an article "Siding over Brick" by Robert M. Hoffman, illustrates a small brick house being sided with asbestos-cement siding. It appears that the building was old and the brick dingy and discolored; moreover the mortar between bricks had become cracked and porous and during a heavy rainstorm the rain beat in and made stains on the walls. Obviously asbestos-cement siding and a little paint on the woodwork vastly improved the appearance of the house as well as increased its livability.

The salesman who suggested the idea is to be commended for keeping his eyes open; most of us would never think of covering up what appeared at casual glance to be a good brick wall, with asbestos-cement or any other kind of siding.

Africa (S. Rhodesia)

(Statistics by Rhodesia Chamber of Mines)

	August 1939 Tons (2000 lbs.)	Value £	s	d
Bulawayo District				
Nil Desperandum (African Asb. Mng. Co. Ltd.)	686.68	9,273	5	3
Pangani (Pangani Tributors)	13.00	78	5	5
Shabanie (Rho. & Gen. Asb. Corp. Ltd.)	3,343.32	64,898	11	9
Victoria District				
D. S. O. (Mashaba Rho. Asb. Co. Ltd.)	2.25	28	12	1
King & Gath's (Rho. & Gen. Asb. Corp. Ltd.)	750.10	11,581	19	11
Murie Asbestos (Mashaba Rho. Asb. Co. Ltd.)	13.00	152	13	4
Regina (African Asb. Mng. Co. Ltd.)	50.60	782	12	0
Rosey Cross (Mashaba Rho. Asb. Co. Ltd.)	12.75	164	8	1
	4,871.70	£86,960	7	10
August 1938	*4,918.93*	*£87,352*	*10*	*5*

Africa (Union of South)

(Statistics published by Dept. of Mines & Industries of U. of S. A.)

	Sept. 1938 Tons (2000 lbs.)	Sept. 1939 Tons (2000 lbs.)
Transvaal		
Amosite	493	1,117
Blue	299	244
Chrysotile	135	33
Cape		
Blue	574	533
	1,501	1,927

Canada

(Statistics published by Bureau of Mines Province of Quebec)

Production November 1939 ..... 40,568 tons (2000 lbs.)
Production November 1938 ..... 29,471 tons (2000 lbs.)

Production of Asbestos in Canada for the year 1939 is esti-

mated by the Dominion Bureau of Statistics as 353,151 short tons valued at $15,454,151. Actual production in 1938 was 289,793 tons, valued at $12,890,195.

AUTOMOBILE PRODUCTION

Production of automotive vehicles for November 1939 totalled 370,194 (351,782 in the United States and 18,412 in Canada); slightly less than the November 1938 total of 390,405 (372,413 in the United States and 17,992 in Canada).

In October 1939 the total was 323,017.

Total for the eleven months of 1939 was 3,263,372; for the eleven months of 1938 2,248,211 and for the same period in 1937 4,669,088.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		December 1939		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	36⅛	41	37½
Asbestos Corp. (Com.)	np	24½	26½	26⅛
Celotex (Com.)	np	9¾	11⅛	10½
Celotex (Pfd.)	100	59⅞	65	65
Certainteed (Com.)	1	6⅛	7⅛	6⅞
Certainteed (Pfd.)	100	28¼	33½	31
Flintkote (Com.)	np	19⅜	22⅛	19⅞
Johns-Manville (Com.)	np	72	79	72⅜
Johns-Manville (Pfd.)	100	127	132	129
Raybestos-Manhattan (Com.)	np	18⅞	21	20
Ruberoid (Com.)	np	17½	20	19⅜
Thermoid (Com.)	1	4½	5	4⅞
Thermoid (Pfd.)	10	28	32	29
U. S. Gypsum (Com.)	20	78½	88½	83¼
U. S. Gypsum (Pfd.)	100	168	181	181

ARIZONA ASBESTOS CORP.

1721 NORTH SPRING STREET, LOS ANGELES, CALIFORNIA

Producers of Crude and Milled Asbestos

Imports into U. S. A.
(Figures published by U. S. Dept. of Commerce)

Unmanufactured Asbestos:	Oct. 1938 Tons (2240 lbs.)	Oct. 1939 Tons (2240 lbs.)
Africa (Br. S.)	690	488
Australia	18	11
Canada	16,519	30,240
Cyprus	.....	693
Finland	19	.....
Italy	2	1
United Kingdom	.....	10
U. S. S. R. (Russia)	1,408	.....
	18,656	31,443
Value	*$727,362*	*$1,231,190*
Tabulation of Crudes and Fibres:		
Crude (Australia)	18	11
Crude (Br. S. Africa)	690	488
Crude (Canada)	126	244
Crude (Italy)	2	1
Crude (United Kingdom)	.....	10
Milled Fibre (Canada)	4,038	9,748
Milled Fibre (U. S. S. R.)	1,357	.....
Lower Grades (Canada)	12,355	20,248
Lower Grades (Cyprus)	.....	693
Lower Grades (Finland)	19	.....
Lower Grades (U. S. S. R.)	51	.....
	18,656	31,443

Manufactured Asbestos Goods:	October 1938 Pounds	October 1939 Pounds
Belgium (Shingles)	99,026	62,100
Germany (Packing)	2,100	.....
United Kingdom (Yarn)	2,605	4,759
United Kingdom (Packing)	576	5,046
United Kingdom (W. Fabrics)	1,711	.....
	106,018	71,905
Value	*$ 4,587*	*$4,939*

There were also imported during October 1939, materials, unclassified, valued at $72, from Belgium.

Exports from U. S. A.

Exports of unmanufactured asbestos during October 1939 amounted to 134 tons, valued at $13,831; compared with 336 tons, valued at $40,958 in October 1938.

Exports of Manufactured Asbestos Goods:

	October 1938		October 1939	
	Quantity	Value	Quantity	Value
Paper, Mlbd. & Rlbd.	lbs. 96,420	$ 5,678	108,241	$ 6,822
Pipe Covg. & Cement	lbs. 339,788	20,907	580,850	22,743
Textiles & Yarn	lbs. 37,600	8,540	45,394	13,088
Packing	lbs. 91,876	56,324	151,103	91,099
Brake Lining—				
Molded & Semi-molded	.....	61,683	.....	70,884
Not Molded	lin. ft. 83,668	17,133	77,156	15,184
Clutch Facings—				
Molded & S-molded	units 19,341	6,704	14,587	5,087
Woven	units 12,635	2,992	13,138	4,075
Magnesia and Mfrs.	lbs. 340,702	27,736	385,462	30,898
Asbestos Roofing	sqs. 2,294	9,737	2,846	20,521
Other Manufactures	lbs. 401,700	36,308	309,231	38,651

Exports of Raw Asbestos from South Africa

	August 1938		August 1939	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
Algeria	.....	£	10	£ 182
Argentine	.....	.....	54	1,466
Australia	118	1,699	10	188
Belgium	.....	.....	15	287
Denmark	.....	.....	2	38
France	175	3,506	257	6,191
Germany	80	1,957	221	4,987
Italy	11	265	60	930
Japan	.....	.....	38	961
Netherlands	55	1,198	.....	.....
Portugal	.....	.....	9	264
Sweden	.....	.....	5	138
United Kingdom	637½	11,641	610	13,358
United States	273½	6,310	568	12,800
Yugoslavia	2	12	.....	.....
	1,352	£26,588	1,859	£41,790

Exports of Raw Asbestos from Canada
(Figures by Dominion Bureau of Statistics)

	October 1938		October 1939	
	Tons (2000 lbs.)	Value	Tons (2000 lbs.)	Value
United Kingdom	2,778	$ 148,706	2,149	$ 131,771
United States	5,059	314,787	11,392	776,786
Australia	537	34,770	65	3,474
New Zealand	20	1,320	150	9,000
British India	30	1,800	.....	.....
Straits Settlements	.....	.....	300	16,850
Eire	.....	.....	50	4,880
Argentina	.....	.....	610	44,320
Belgium	1,812	124,554	867	57,162
Czechoslovakia	643	43,244	.....	.....
France	292	22,422	1,085	90,424
Germany	2,731	295,103	.....	.....
Italy	.....	.....	919	61,285
Japan	3,024	157,872	2,524	155,996
Netherlands	5	188	.....	.....
Siam	.....	12	100	6,000
Sweden	315	20,858	.....	.....
	17,246	$1,165,636	20,211	$1,357,948
Sand and Waste				
United Kingdom	950	20,185	227	4,893
United States	13,357	237,800	22,645	403,960
British India	30	435	.....	.....
Brazil	.....	.....	10	130
Belgium	50	1,200	.....	.....
Cuba	.....	.....	60	780
France	70	1,680	30	720
Germany	202	4,860	.....	.....
Netherlands	60	1,062	.....	.....
Sweden	35	562	.....	.....
	14,754	$ 267,784	22,972	$ 410,483
	32,000	*$1,433,420*	*43,183*	*$1,768,431*

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No-Ox-Idized Reinforced Asbestos Wrapper for protecting underground pipe lines against physical and chemical action has been developed by Dearborn Chemical Company, 310 South Michigan Ave., Chicago. It consists of asbestos paper impregnated with No-Ox-Id, and reinforced with a light fabric and with a layer of acetate membrane.

NEWS OF THE INDUSTRY

BIRTHDAYS.

J. H. Nankervis, Vice President, Magnesia-Asbestos Insulation Co., New York City, January 16.

Arthur J. Reed, President, Asbestos Distributors, Inc., Port Chester, N. Y., January 16.

A. F. Matheis, Assistant Vice President, Thermoid Company, Trenton, N. J., January 17.

E. C. Nankervis, President, Magnesia-Asbestos Insulation Co., New York City, January 19.

Henry W. Grebe, President, Central Asbestos & Magnesia Co., Chicago, Ill., January 21.

G. D. Crabbs, President, Philip Carey Manufacturing Co., Lockland, Cincinnati, O., January 22.

Col. J. G. Ross, Director & General Manager, Asbestos Corporation Limited, Thetford Mines, Quebec, February 1.

L. C. Rugen, Vice President, The Ruberoid Co., New York City, February 6.

H. A. Hirschfeld, President, Standard Asbestos Co., Inc., New York City, February 11.

Lewis H. Brown, President, Johns-Manville Corporation, New York City, February 13.

Robert W. Steele, President, Asbestos Corporation Limited, Thetford Mines, Quebec, February 15.

To all these gentlemen we extend best wishes and congratulations on the occasion of their birthdays.

NORRISTOWN MAGNESIA & ASBESTOS COMPANY. Thomas Jenkins resigned as Vice President and General Manager of the Norristown Magnesia & Asbestos Company, effective December 31, 1939. He had been with the Company for fourteen years.

UNION ASBESTOS & RUBBER COMPANY of Chicago, Ill., announces the following changes in its organization:

Joseph H. Kuhns, Vice President in charge of eastern railroad sales has been placed in charge of all railroad sales.

William R. Gillies, Vice President in charge of western railroad sales, has been placed in charge of production, engineering and research, with headquarters at Cicero, Ill.

Philip S. Nash, western representative, has been elected assistant Vice-President of railroad sales and service with headquarters at Chicago.

W. H. Fehrs, has been appointed assistant to Vice President in charge of factory operations and management, with headquarters at Cicero, Ill.

J. L. Adams, has been appointed western representative of

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

railroad and industrial sales with headquarters at 420 Market Street, San Francisco, Calif.

THE CANADIAN MINING JOURNAL celebrated in its November number, its Sixtieth Anniversary, and devoted several pages to the history of various Canadian firms, among which were Asbestos Corporation Limited.

THE PHILIP CAREY MFG. COMPANY, on December 20 paid an accumulation dividend of $3.00 a share on the six per cent preferred stock, payable December 20 to holders of record December 9.

HEAT INSULATION FOR INDUSTRY 1939-1940 is the title of a very attractive and informative 24 page brochure concerning asbestos, magnesia, diatomite and rockwool products, recently published by the Philip Carey Company. The booklet contains a number of tables, graphs, illustrations and descriptions applicable to these materials.

ASBESTOS MANUFACTURING COMPANY of Huntington, Ind. Stockholders of this Company met on January 10 at the office of the corporation, Huntington, Ind., at the call of the Board of Directors, the purpose of the meeting being to present to the stockholders a Plan of Reorganization. Further details are available upon request direct to the Company at its Huntington Office.

RAYBESTOS-MANHATTAN, INC., expects to publish during the latter part of January, a very complete treatise on asbestos textiles. Written by a man who has been connected with the Asbestos industry for the past 25 years, much of which time he has devoted to the study of the textile division, it is felt that this book will fill a long felt need in the Industry. Further announcement and description will be made in our February number.

KEASBEY & MATTISON COMPANY. The 1940 Sales Meeting of the Keasbey & Mattison Company will be opened at 9:30 A. M. on January 22nd, by Ernest Muehleck, President. The meeting will be held at the Manufacturers' Country Club, Oreland, Pa., and will continue for four days — January 22, 23, 24 and 25.

Sales Executives, District Managers, Salesmen and Insulation Distributors of the Company will be in attendance; inspection trips thru the large K&M plants at Ambler are a feature of the program. W. S. Acuff, Jr., Sales Manager and William Marriott, Jr., Assistant Sales Manager will conduct the meetings.

KOKUSAI SEKIMEN CO., LTD., of Osaka, Japan, has changed its name to Kokusai Sekimen Sangyo Kabusiki Kaisha and will in future be located at 3, 3-Chome, Dojima Hamadori, Kita-Ku-Osaka, having moved its offices from 55, 1 Chome Kyomachiboridori, Nishi-Ku, Osaka.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Seamless Asbestos Cement Pipes. No. 2,177,810. Granted on October 31, 1939, to Andrew Thyne Reid, Camellia, near Sydney, New South Wales, Australia, assignor to James Hardie & Co., Pty., Limited, Sydney, Australia, a company of New South Wales, Australia. Application March 26, 1938. Serial No. 198,333. In Australia June 15, 1937.

In machines of the kind described for the manufacture of seamless pipes from cement and fibres of the type in which the length of the pipe manufactured is equal to the width of the film manufactured by the machine, means for effecting a uniform distribution of pressure upon the pipe comprising two sets of pressure rollers mounted in brackets, each set being formed from a plurality of separate rollers which extend longitudinally of the pipe, the rollers in one set being staggered with those in the other set.

Heat Insulation. No. 2,179,057. Granted on November 7, 1939 to Clyde C. Schuetz, Chicago, Ill., assignor to U. S. Gypsum Company, Chicago, application May 3, 1937. Serial No. 140,343.

A laminated structure comprising a plurality of membranes, each of which is indented from one side to provide a plurality of discontinuous protuberances on the opposite surface thereof, placed to form a plurality of rows, said membranes being positioned in face-to-face relation with alternate ones thereof in reversed relation so that the spaced protuberances on one membrane engage the protuberances on an adjacent membrane with said discontinucus rows on said membranes standing at a substantial angle to each other to prevent nesting of said protuberances and provide a plurality of aircells between said membranes, the indented surface of said one membrane facing the similar indented surface of an adjacent membrane to provide a plurality of totally encased dead air spaces.

Drafted Yarn. No. 2,179,078. Granted on November 7, 1939, to Albert Allwood, North Charleston, S. C., assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Application February 28, 1938. Serial No. 193,028.

A process of drafting roving to form a fibrous yarn which comprises passing said roving to a drafting zone and subjecting the same to tension, subjecting said roving to pressure between pressure surfaces in said drafting zone, reciprocating at least one of said surfaces transversely relative to said roving to vary the pressure upon and rub the fibres of said roving.

THIS and THAT

Aluminum. Canada ranked third among world countries as a producer of aluminum in 1938, producing 66,000 long tons.

Pipe Record. Nine days after the order was given to lay a 6 in. water main to a cavalry camp, 1¾ miles from the city, municipal authorities and business interests in Little Rock had the line in place and ready to carry water.

P. S. The pipe used was 6 in. asbestos-cement, and we understand was furnished by Johns-Manville.—*From Engineering News-Record.*

Automobile Chronology. The December number of Brake Service contained a very interesting Chronology of the Automobile Industry. Too bad, however, that no mention is made of asbestos brake lining.

Diamond Jubilee Stickers. There are about a thousand of the Diamond Jubilee Stickers left. Why not order a hundred or so of these—price 50c a hundred. Write us at 16th Fl., Inquirer Bldg., Philadelphia.

Shasta Dam. The longest Conveyor System in the world—10 miles—will be used by the Bureau of Reclamation in the construction of the new Shasta Dam in Redding, Calif.

Some idea of the size of this dam can be gained by the statement that the concrete going into its construction would make a solid monument a city block square and slightly higher than the Empire State Building.

Calendar. The calendar recently issued by the Norristown Magnesia & Asbestos Company shows very attractively "candid camera" photographs of aircell pipe covering.

Air Conditioning is said to be at least 130 years old. The Black Emperor, Henri Christophe, cooled the rooms of his palace at Sans Souci in 1808.

Sales Convention. Three hundred persons attended the annual sales convention held on January 3rd, 4th and 5th by The Celotex Corporation in New Orleans, La. On the afternoon of January 3rd the entire party visited the plant at Marrero, La., where the first Celotex board was manufactured in 1921. The company increased its field organization in 1939 and will continue this expansion in 1940.

Handbook. The new 1940 handbook of Truck and Trailer Size and Weight Restrictions published by The Four Wheel Drive Auto Co., Clintonville, Wis., is now ready for distribution. The Company has also compiled the road laws of the various states, this available to any truck operator or official dealing with the road laws. Anyone desiring a copy of either of these books should write the Company direct.

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